

January 6, 2000

TO: All Rapid II Spacecraft IDIQ Contractors

FROM: RSDO Contracting Officer/214.3

SUBJECT: Request For Offer (RFO)

The Rapid Spacecraft Development Office (RSDO) is releasing this RFO for bid. The proposal due date is January 18, 2000. The Statement of Work (SOW) and deliverables are on the RSDO web page (<http://rsdo.gsfc.nasa.gov>).

Any proposals submitted in response to the RFO shall include a firm fixed price. The Contracting Officer will give each contract holder a fair opportunity to be considered in accordance with FAR 16.505(b). The Government contemplates evaluating and selecting offer(s) based on the proposal as submitted and following selection the Government reserves the right to negotiate corrections prior to issuing the delivery order. Offeror's are reminded that the only documents to be submitted with the offer in response to this RFO are those listed in the RFO proposal preparation instructions.

We look forward to receiving your proposals. If you have any questions with regard to the RFO please contact Mr. Leif L. Grotos at (301) 286-7586.

Original signed by

Leif L. Grotos  
Contracting Officer

# **Rapid II Request For Offer (RFO)**

**Title:** Database/Catalog Set-Up

**Date of RFO:** 1/6/2000

**Type:** Non-Mission Specific

**Date Responses are Due:** 1/18/2000

3:00pm EST

**Ordering Clause:** I.A.7

**Required Delivery Date:** 2/11/2000.

**Summary:** Provide necessary support to establish paper and electronic catalogs for use in promoting the use of RSDO's Rapid II IDIQ contracts and advanced concept modeling by the Integrated Mission Design Center.

**List of Attachments:**

- A. SOW
- B. Deliverables and Price

**Offer Format and Instructions:**

- a) Offers shall address the approach and compliance with the attached Delivery Order SOW, including any optional tasks (see SOW) being proposed.
- b) Offers shall complete attachment B, deliverable and price matrix.
- c) Your proposal shall be limited to no more than two pages. A page is defined as one side of a sheet, 8 1/2" x 11", with at least one inch margins on all sides. The acceptable type fonts are Times, Times Roman, Times New Roman, Arial or Helvetica. Font size for text shall be 12 point with normal kerning (spacing between individual characters) and 14 point leading (line spacing). Font size for text in figures and tables shall be 8 point or larger. Fold-out pages may be used where appropriate but each fold-out will count as the equivalent number of 8 1/2" x 11" pages rounded up to the nearest whole number. That is: an 11" x 17" fold-out page with printing on one side will count as two pages, whereas an 11" x 20" fold-out page with printing on one side will count as three pages. Illustrations, charts, etc., are all included in the limitation total. Offerors are cautioned that pages not in compliance with this solicitation instruction will not be considered in the evaluation and will be returned to the offeror. The responses to this RFO shall be in Adobe PDF.
- d) Any offer containing a virus will not be opened or evaluated.
- e) Offers shall be submitted by the above date and time at the RSDO Web Site (<http://rsdo.gsfc.nasa.gov>) or FAX to (301) 286-0530.

### **Delivery Order Evaluation/Selection Criteria**

The Government will award delivery orders to the Contractor(s) whose proposal meets the following criteria:

- a) Offer shall comply with the SOW, Attachment 1. The offeror shall clearly identify which optional tasks (see SOW) are being proposed, if any.
- b) Adequately detail its approach to completing the tasks as defined in the SOW.
- c) Price shall not exceed \$50,000.

RAPID II RFO

ATTACHMENT A

STATEMENT OF WORK

## **Statement of Work, RFO**

### **Database/Catalog Set-Up**

#### Task 1. Publicly Releasable Data Sheet

a) The contractor shall deliver by February 11, 2000 a 2 page, publicly releasable specification sheet for each core bus, to be used by NASA for promotional purposes. The vendor may include a corporate logo; but the NASA logo must appear in the upper right corner of the first page, not smaller than 1.25 inches. In addition, the following contact information must appear in a 2.25 inch high by 3.5 inch box on the second page in the lower right corner (12 pt Times New Roman font):

For more information contact:  
Rapid Spacecraft Development Office  
NASA Goddard Space Flight Center  
Mail Code 456  
Greenbelt, MD 20771 USA

Phone: 301/286-1289  
Web: <http://rsdo.gsfc.nasa.gov>

An approval draft shall be electronically submitted to the RSDO Web site no later than close of business January 26, 2000. NASA will respond by January 28, 2000 with redlined changes and/or approval.

The contractor shall incorporate NASA's changes and have 750 copies printed, double sided, to be delivered on or before the completion date stated above.

While technical content is up to the discretion of the individual vendor, the RSDO recommends providing enough information to aid the Principal Investigators and mission planners in determining a rough fit between mission and spacecraft. A suggested list of information to include is provided below:

Payload mass, power and volume capacities  
Launch vehicle compatibility and orbit capability  
Attitude control architecture type (e.g. gravity gradient, spin stabilized, etc.)  
Contract baseline delivery schedule  
Communication and data handling capability  
Graphics/pictures of flight and launch configurations  
Flexibility in accommodation

b) The contractor shall deliver a Web postable version of the data sheet. HTML and/or PDF formatted files are recommended for ease of use by the public. A maximum file size of 1 meg is recommended.

c) The contractor shall electronically complete a column of publicly releasable data in an Excel spreadsheet for each core bus. The Excel spreadsheet is attached and provided on the RSDO web page (file summarysheet.xls). This information will be compiled by NASA and provided with hardcopy catalogs and as such, must be publicly releasable.

#### Task 2. Load Electronic Database

The contractor shall complete an MS Excel CDRL 18 spreadsheet (posted on the RSDO Web site) and deliver via the RSDO web site one Excel file per contract baseline core system. Complete both sheets that comprise the file (Core System Performance and Subsystem Details). An approval draft of the completed spreadsheet shall be delivered by January 26, 2000. NASA will respond by January 28, 2000 with red-lined changes and/or approval. This information will not be released publicly, and will be used by the RSDO and IMDC for mission accommodation assessments. (Note that this involves only the electronic spreadsheet portion of CDRL 18, and not the entire CDRL)

#### Task 3. Electronic drawing of core buses

The contractor shall provide the RSDO with information described below, that may be used in the mission concept development activity of the Integrated Mission Design Center (IMDC). The IMDC works with Principle Investigator project teams in a collaborative design environment to develop a mission description in under a week. A very top level assembly CAD model (30-40 meg max) will facilitate evaluation of RSDO core buses for PI application. These models will not be released publicly (except in viewgraph form) and will only be used by the RSDO and IMDC for mission accommodation studies.

Provide computer aided design (CAD) three-dimensional geometric model of the top level core system and options in the following configurations:

- a. Launch
- b. Operational

The models shall be provided in one of the following formats (in order of preference):

- a. IDEAS
- b. PRO-E
- c. IGES

The models shall be geometrically accurate, correctly dimensioned and contain components in sufficient detail to be useful for evaluating conceptual instrument accommodation.

Core bus coordinate system and origin, (We recommend that station 0 being the Launch Vehicle payload attach fitting (PAF)/Spacecraft interface plane)  
Configuration of the solar array and antenna placement

Location on spacecraft of instrument payload attach hard points  
Core bus to payload mechanical interface  
Center of Gravity and moments of inertia (BOL/EOL)  
Thruster location – CAD model  
Core bus to Launch vehicle mechanical interface  
Payload envelope  
Payload allowable fields of view (FOV)

Task 4. (Optional) 1:15 scale static display model

As an optional task the contractor may propose to prepare a static display model of the core buses under contract to the RSDO. This will not be necessary for models of unchanged buses, previously provided under Rapid Spacecraft Acquisition contract.

The fidelity should be sufficient to allow an RSDO customer to visualize the accommodation of the payload. The 1:15 scale is a guideline, the preference is that the model not exceed 12 inches in any dimension. The model shall be shipped to RSDO in an appropriate container to prevent shipping damage. The contractor shall propose a delivery date for the model.

RAPID II RFO

ATTACHMENT B

DELIVERABLES AND PRICE



<b>TASKS</b>	<b>DESCRIPTION</b>	<b>PRICE</b>	<b>DELIVERY DATE</b>
Task 1	Publicly Releasable Data		2/11/2000
Task 2	Load Electronic Database		2/11/2000
Task 3	Electronic drawing of core buses		TBP
Task 4 Optional	1:15 scale static display model		TBP